

## 2015

### Articles scientifiques

1. **BALENT, G., LAVOREL, S., LOUCOUGARAY, G., BERTONI, G., BOISDON, I., CAPITAINE, M., COLACE, M.P., DOBREMEZ, L., GIBON, A., GOS, P., MESMIN, X.** - 2015. Quelles perspectives d'intensification écologique des services fourragers rendus par des prairies de moyenne montagne française? Une analyse comparative. *Fourrages*, n° 221, p. 3-14
2. **BANAG, C., THRIFFLETON, T., ALEJANDRO, G.J., REINEKING, B., LIEDE-SCHUMANN, S.** - 2015. Bioclimatic niches of selected endemic *Ixora* species on the Philippines: predicting habitat suitability due to climate change. *Plant Ecology*, vol. 216, n° 9, p. 1325-1340
3. **BEVANDA, M., FRONHOFER, E.A., HEURICH, M., MULLER, J., REINEKING, B.** - 2015. Landscape configuration is a major determinant of home range size variation. *Ecosphere*, vol. 6, n° 10, 12 p.
4. **BOURRIER, F., LAMBERT, S., BAROTH, J.** - 2015. A reliability-based approach for the design of rockfall protection fences. *International Journal of Rock Mechanics and Mining Sciences*, vol. 48, n° 1, p. 247-259
5. **BUNSE, L., RENDON, O., LUQUE, S.** - 2015. What can deliberative approaches bring to the monetary valuation of ecosystem services? A literature review. *Ecosystem Services*, vol. 14, p. 88-97
6. **CARDINAEL, R., MAO, Z., PRIETO, I., STOKES, A., DUPRAZ, C., KIM, J.H., JOURDAN, C.** - 2015. Competition with winter crops induces deeper rooting of walnut trees in a Mediterranean alley cropping agroforestry system. *Plant and Soil*, vol. 391, n° 1-2, p. 219-235
7. **CAVILLE, P., DUCASSE, L., BRETON, V., DOMMANGET, F., TABACCHI, E., EVETTE, A.** - 2015. Functional and taxonomic plant diversity for riverbank protection works: bioengineering techniques close to natural banks and beyond hard engineering. *Journal of Environmental Management*, vol. 151, p. 65-75
8. **CORDONNIER, T., KUNSTLER, G.** - 2015. The Gini index brings asymmetric competition to light. *Perspectives in Plant Ecology Evolution and Systematics*, vol. 17, n° 2, p. 107-115
9. **CORDONNIER, T., PEYRON, J.L.** - 2015. Reconciling Environment and Production in Managed Ecosystems: Is Ecological Intensification a Solution? *Environmental Management*, vol. 56, n° 5, p. 1035-1038
10. **CORONA, C., LOPEZ-SAEZ, J., STOFFEL, M., ROVERA, G., EDOUARD, J.L., GUIBAL, F.** - 2015. Impacts of more frequent droughts on a relict low-altitude *Pinus uncinata* stand in the French Alps. *Frontiers in Ecology and Evolution*, vol. 2, 10 p.
11. **COURBAUD, B., LAFOND, V., LAGARRIGUES, G., VIEILLEDENT, G., CORDONNIER, T., JABOT, F., DE COLIGNY, F.** - 2015. Applying ecological model evaluation: Lessons learned with the forest dynamics model Samsara2. *Ecological Modelling*, vol. 314, p. 1-14
12. **CROUZAT, E., MOUCHET, M., TURKELBOOM, F., BYCZEK, C., MEERSMANS, J., BERGER, F., VERKERK, P.J., LAVOREL, S.** - 2015. Assessing bundles of ecosystem services from regional to landscape scale: insights from the French Alps. *Journal of Applied Ecology*, vol. 52, n° 5, p. 1145-1155
13. **CULLOTTA, S., BONCINA, A., CARVALHO-RIBEIRO, S.M., CHAUVIN, C., FARCY, C., KURTTILA, M., MAETZKE, F.G.** - 2015. Forest planning across Europe: the spatial scale, tools, and inter-sectoral integration in land-use planning. *Journal of Environmental Planning and Management*, vol. 58, n° 8, p. 1384-1411
14. **DELEGLISE, C., MEISSER, M., MOSIMANN, E., SPIEGELBERGER, T., SIGNARBIEUX, C., JEANGROS, B., BUTTLER, A.** - 2015. Drought-induced shifts in plants traits, yields and nutritive value under realistic grazing and mowing managements in a mountain grassland. *Agriculture Ecosystems & Environment*, vol. 213, p. 94-104
15. **DOBREMEZ, L., CHAZOULE, C., LOUCOUGARAY, G., PAUTHENET, Y., NETTIER, B., LAVOREL, S., MADELRIEUX, S., DORE, A., FLEURY, P.** - 2015. Débats et controverses sur l'intensification fourragère dans le Vercors : quelles pratiques, quelles conceptions en jeu ? *Fourrages*, n° 221, p. 33-45

16. EYSN, L., HOLLAUS, M., LINDBERG, E., BERGER, F., MONNET, J.M., DALPONTE, M., KOBAL, M., PELLEGRINI, M., LINGUA, E., MONGUS, D., PFEIFER, N. - 2015. A benchmark of lidar-based single tree detection methods using heterogeneous forest data from the Alpine space. *Forests*, vol. 6, n° 5, p. 1721-1747
17. FARIN, M., MANGENEY, A., TOUSSAINT, R., DE ROSNY, J., SHAPIRO, N., DEWEZ, T., HIBERT, C., MATHON, C., SEDAN, O., BERGER, F. - 2015. Characterization of rockfalls from seismic signal: insights from laboratory experiments. *Journal of Geophysical Research*, vol. 120, n° 10, p. 7102-7137
18. FAVILLIER, A., LOPEZ-SAEZ, J., CORONA, C., TRAPPMANN, D., TOE, D., STOFFEL, M., ROVERA, G., BERGER, F. - 2015. Potential of two submontane broadleaved species (*Acer opalus*, *Quercus pubescens*) to reveal spatiotemporal patterns of rockfall activity. *Geomorphology*, vol. 246, p. 35-47
19. FORSYTH, D.M., WILSON, D.J., EASDALE, T.A., KUNSTLER, G., CANHAM, C.D., RUSCOE, W.A., WRIGHT, E.F., MURPHY, L., GORMLEY, A.M., GAXIOLA, A., COOMES, D.A. - 2015. Century-scale effects of invasive deer and rodents on the dynamics of forests growing on soils of contrasting fertility. *Ecological Monographs*, vol. 85, n° 2, p. 157-180
20. FUHR, M., BOURRIER, F., CORDONNIER, T. - 2015. Protection against rockfall along a maturity gradient in mountain forests. *Forest Ecology and Management*, n° 354, p. 224-231
21. GAUCHERAND, S., SCHWOERTZIG, E., CLEMENT, J.C., JOHNSON, B., QUETIER, F. - 2015. The cultural dimensions of freshwater wetland assessments: lessons learned from the application of US rapid assessment methods in France. *Environmental Management*, vol. 56, n° 1, p. 245-259
22. GISCHIG, V.S., HUNGR, O., MITCHELL, A., BOURRIER, F. - 2015. Pierre3D - a 3D stochastic rock fall simulator based on random ground roughness and hyperbolic restitution factors. *Canadian Geotechnical Journal*, vol. 52, n° 9, p. 1360-1373
23. KOH, I., REINEKING, B., PARK, C.R., LEE, D. - 2015. Dispersal potential mediates effects of local and landscape factors on plant species richness in maeulsoop forests of Korea. *Journal of Vegetation Science*, vol. 26, n° 4, p. 631-642
24. LAFOND, V., CORDONNIER, T., COURBAUD, B. - 2015. Reconciling biodiversity conservation and timber production in mixed uneven-aged mountain forests: identification of ecological intensification pathways. *Environmental Management*, vol. 56, n° 5, p. 1118-1133
25. LAGARRIGUES, G., JABOT, F., LAFOND, V., COURBAUD, B. - 2015. Approximate Bayesian Computation to recalibrate individual-based models with population data: illustration with a forest simulation model. *Ecological Modelling*, vol. 306, p. 278-286
26. LAI, H.R., MAYFIELD, M.M., GAY-DES-COMBES, J., SPIEGELBERGER, T., DWYER, J.M. - 2015. Distinct invasion strategies operating within a natural annual plant system. *Ecology Letters*, vol. 18, n° 4, p. 336-346
27. LAVAINE, C., EVETTE, A., PIEGAY, H. - 2015. European *Tamaricaceae* in bioengineering on dry soils. *Environmental Management*, vol. 56, n° 1, p. 221-232
28. LE BEC, J., COURBAUD, B., LE MOGUEDEC, G., PELISSIER, R. - 2015. Characterizing tropical tree species growth strategies: learning from inter-individual variability and scale invariance. *PLoS One*, vol. 10, n° 3, 18 p.
29. LESCOURRET, F., DUTOIT, T., REY, F., COTE, F., HAMELIN, M., LICHTFOUSE, E. - 2015. Agroecological engineering. *Agronomy for Sustainable Development*, vol. 35, p. 1191-1198
30. LOUCOUGARAY, G., DOBREMEZ, L., GOS, P., PAUTHENET, Y., NETTIER, B., LAVOREL, S. - 2015. Assessing the effects of grassland management on forage production and environmental quality to identify paths to ecological intensification in mountain grasslands. *Environmental Management*, vol. 56, n° 5, p. 1039-1052
31. MAO, Z., SAINT-ANDRE, L., BOURRIER, F., STOKES, A., CORDONNIER, T. - 2015. Modelling and predicting the spatial distribution of tree root density in heterogeneous forest ecosystems. *Annals of Botany*, vol. 116, n° 2, p. 261-277

32. **MARTIN, E.A., REINEKING, B., SEO, B., STEFFAN-DEWENTER, I.** - 2015. Pest control of aphids depends on landscape complexity and natural enemy interactions. *PeerJ*, vol. 3, 22 p.
33. **MATHIAS, J.D., BONTE, B., CORDONNIER, T., DE MOROGUES, F.** - 2015. Using the viability theory to assess the flexibility of forest managers under ecological intensification. *Environmental Management*, vol. 56, n° 5, p. 1170-1183
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36. **PAILLET, Y., PERNOT, C., BOULANGER, V., DEBAIVE, N., FUHR, M., GILG, O., GOSSELIN, F.** - 2015. Quantifying the recovery of old-growth attributes in forest reserves: a first reference for France. *Forest Ecology and Management*, vol. 346, p. 51-64
37. **PANSU, J., DE DANIELI, S., PUISSANT, J., GONZALEZ, J.M., GIELLY, L., CORDONNIER, T., ZINGER, L., BRUN, J.J., CHOLER, P., TABERLET, P., CECILLON, L.** - 2015. Landscape-scale distribution patterns of earthworms inferred from soil DNA. *Soil Biology & Biochemistry*, vol. 83, p. 100-105
38. **PRIETO, I., ROUMET, C., CARDINAEL, R., DUPRAZ, C., JOURDAN, C., KIM, J.H., MAEGHT, J.L., MAO, Z., PIERRET, A., PORTILLO, N., ROUPSARD, O., THAMMAHACKSA, C., STOKES, A.** - 2015. Root functional parameters along a land-use gradient: evidence of a community-level economics spectrum. *Journal of Ecology*, vol. 103, n° 2, p. 361-373
39. **PUISSANT, J., CECILLON, L., MILLS, R.T.E., ROBROEK, B.J.M., GAVAZOV, K., DE DANIELI, S., SPIEGELBERGER, T., BUTTLER, A., BRUN, J.J.** - 2015. Seasonal effects of climate manipulation on microbial community structure and function in mountain soils. *Soil Biology & Biochemistry*, vol. 80, p. 296-305
40. **REY, F., CECILLON, L., CORDONNIER, T., JAUNATRE, R., LOUCOUGARAY, G.** - 2015. Integrating ecological engineering and ecological intensification from management practices to ecosystem services into a generic framework: a review. *Agronomy for Sustainable Development*, vol. 35, n° 4, p. 1335-1345
41. **REY, F., LABONNE, S.** - 2015. Resprout and survival of willow (*Salix*) cuttings on bioengineering structures in actively eroding gullies in marls in a mountainous Mediterranean climate: a large-scale experiment in the Francon catchment (Southern Alps, France). *Environmental Management*, vol. 56, n° 4, p. 971-983
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43. **SAENGER, A., CECILLON, L., POULENARD, J., BUREAU, F., DE DANIELI, S., GONZALEZ, J.M., BRUN, J.J.** - 2015. Surveying the carbon pools of mountain soils: a comparison of physical fractionation and rock-eval pyrolysis. *Geoderma*, vol. 241-242, p. 279-288
44. **SCHWEIGER, A.H., OTIENO, D.O., KULUNGE, S.R., REINEKING, B., TENHUNEN, J.** - 2015. The Afro-alpine dwarf shrub *Helichrysum Citrispinum* favours understorey plants through microclimate amelioration. *Plant Ecology & Diversity*, vol. 8, n° 3, p. 293-303

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47. TOIGO, M., VALLET, P., PEROT, T., BONTEMPS, J.D., PIEDALLU, C., COURBAUD, B. - 2015. Overyielding in mixed forests decreases with site productivity. *Journal of Ecology*, vol. 103, n° 2, p. 502-512
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### Articles techniques ou de vulgarisation

1. BRETON, V., REY, F., CROSAZ, Y. - 2015. Le bois raméal fragmenté (BRF) pour la lutte contre l'érosion : un exemple de valorisation d'un déchet organique. *Sciences Eaux et Territoires*, n° 16, p. 46-48
2. DUPIRE, S., BOURRIER, F., MONNET, J.M., BERGER, F. - 2015. Sylvaccess : un modèle pour cartographier automatiquement l'accessibilité des forêts. *Revue Forestière Française*, vol. 70, n° 2, p. 111-126
3. EVETTE, A., CAVAILLE, P., BAZ, F., FROSSARD, P.A., RAYMOND, P. - 2015. Quelles techniques pour végétaliser des enrochements de berges de cours d'eau ? *Sciences Eaux et Territoires*, vol. Hors Série, n° 19, 7 p.
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5. LIGOT, G., BALANDIER, P., COURBAUD, B., JONARD, M., KNEESHAW, D., CLAESSENS, H. - 2015. Dosage de la lumière pour maintenir la coexistence d'espèces d'ombre et de demi-ombre dans la régénération de la futaie irrégulière. *Revue Forestière Française*, vol. 67, n° 3, p. 195-211
6. REY, F., CROSAZ, Y., CASSOTTI, F., DE MATOS, M. - 2015. Génie végétal, génie biologique et génie écologique : concepts d'hier et d'aujourd'hui. *Sciences Eaux et Territoires*, n° 16, p. 4-9
7. REY, F., DUTOIT, T., COTE, F., LESCOURRET, F. - 2015. L'ingénierie écologique au service de l'aménagement du territoire - Avant-propos. *Sciences Eaux et Territoires*, n° 16, p. 2-3
8. REY, F., LABONNE, S., BRETON, V., LOUIS, S., TALASKA, N., ERKTAN, A., DUMAS, A., BURYLO, M., DANGLA, L., LAVANDIER, G. - 2015. Utilisation innovante du génie végétal pour le contrôle de l'érosion et de la sédimentation à l'échelle du territoire de la Durance. *Sciences Eaux et Territoires*, n° 16, p. 28-35

## 2014

### Articles scientifiques

1. MAO, Z., BOURRIER, F., STOKES, A., FOURCAUD, T. - 2014. Three-dimensional modelling of slope stability in heterogeneous montane forest ecosystems. *Ecological Modelling*, vol. 273, n° 10, p. 11-22
2. TOE, D., LAMBERT, S., BOURRIER, F., BERGER, F. - 2014. Improving rebound models in 3D rockfall simulation codes used for the design of protection embankments. *Applied Mechanics and Materials*, vol. 566, p. 185-190
3. BAE, S., REINEKING, B., EWALD, M., MUELLER, J. - 2014. Comparison of airborne lidar, aerial photography, and field surveys to model the habitat suitability of a cryptic forest species - the hazel grouse. *International Journal of Remote Sensing*, vol. 35, n° 17, p. 6469-6489
4. BIURRUN, I., GARCIA-MIJANGOS, I., BERAESTEGI, A., AMBARLI, D., DEMBICZ, I., FILIBECK, G., JANDT, U., JANIOVA, M., JAUNATRE, R., KACKI, Z., KUZEMKO, A., PEDASHENKO, H., POLCHANINOVA, N.Y., VYNOKUROV, D., DENGLER, J. - 2014. Diversity of dry grasslands in Navarre (Spain): experiences from the 7th EDGG Field Workshop, 15-24 June 2014. *Bulletin of the European Grassland Group*, vol. 24-25, p. 4-21
5. BOCEDI, G., ZURELL, D., REINEKING, B., TRAVIS, J.M.J. - 2014. Mechanistic modelling of animal dispersal offers new insights into range expansion dynamics across fragmented landscapes. *Ecography*, vol. 37, n° 12, p. 1240-1253
6. BRANG, P., SPATHELF, P., LARSEN, J.B., BAUHUS, J., BONCINA, A., CHAUVIN, C., DRÖSSLER, L., GARCIA-GÜEMES, C., HEIRI, C., KERR, G., LEXER, M.J., MASON, B., MOHREN, F., MÜHLETHALER, U., NOCENTINI, S., SVOBODA, M. - 2014. Suitability of close-to-nature silviculture for adapting temperate European forests to climate change. *Forestry*, vol. 87, n° 4, p. 492-503
7. BRETON, V., FORESTIER, O., GUINDON, O., EVETTE, A. - 2014. Ecological restoration under pressure from invasive animal species: use of Salicaceae cuttings in a river bank overrun by coypu. *River Research and Applications*, vol. 30, n° 8, p. 1002-1012
8. BURYLO, M., DUTOIT, T., REY, F. - 2014. Species traits as practical tools for ecological restoration of marly eroded lands. *Restoration Ecology*, vol. 22, n° 5, p. 633-640
9. COINCE, A., CORDIER, T., LENGELLE, J., DEFOSSEZ, E., VACHER, C., ROBIN, C., BUEE, M., MARCAIS, B. - 2014. Leaf and root-associated fungal assemblages do not follow similar elevational diversity patterns. *PLoS One*, vol. 9, n° 6, 10 p.
10. CORONA, C., LOPEZ-SAEZ, J., STOFFEL, M. - 2014. Defining optimal sample size, sampling design and thresholds for dendrogeomorphic landslide reconstructions. *Quaternary Geochronology*, vol. 22, p. 72-84
11. DOMMANGET, F., EVETTE, A., SPIEGELBERGER, T., GALLET, C., PACE, M., IMBERT, M., NAVAS, M.L. - 2014. Differential allelopathic effects of Japanese knotweed on willow and cottonwood cuttings used in riverbank restoration techniques. *Journal of Environmental Management*, vol. 132, p. 71-78
12. EVETTE, A., ZANETTI, C., CAVAILLE, P., DOMMANGET, F., MERIAUX, P., VENNETIER, M. - 2014. La gestion paradoxale des ripisylves des cours d'eau de piedmont alpin endigués. *Revue de Géographie Alpine-Journal of Alpine Research*, vol. 102, n° 4, 12 p.
13. FUERST, C., OPDAM, P., INOSTROZA, L., LUQUE, S. - 2014. Evaluating the role of ecosystem services in participatory land use planning: proposing a balanced score card. *Landscape Ecology*, vol. 29, n° 8, p. 1435-1446
14. GARDARIN, A., GARNIER, E., CARRERE, P., CRUZ, P., ANDUEZA, D., BONIS, A., COLACE, M.P., DUMONT, B., DURU, M., FARRUGGIA, A., GAUCHERAND, S., GRIGULIS, K., KERNEIS, E., LAVOREL, S., LOUAULT, F., LOUCOUGARAY, G., MESLEARD, F., YAVERCOVSKI, N., KAZAKOU, E. - 2014. Plant trait-digestibility relationships across management and climate gradients in permanent grasslands. *Journal of Applied Ecology*, vol. 51, n° 5, p. 1207-1217

15. **GAVAZOV, K., MILLS, R., SPIEGELBERGER, T., LENGLET, J., BUTTLER, A.** - 2014. Biotic and abiotic constraints on the decomposition of *Fagus sylvatica* leaf litter along an altitudinal gradient in contrasting land-use types. *Ecosystems*, vol. 17, n° 8, p. 1326-1337
16. **JUNG, V., ALBERT, C., VIOLLE, C., KUNSTLER, G., LOUCOUGARAY, G., SPIEGELBERGER, T.** - 2014. Intraspecific trait variability mediates the response of subalpine grassland communities to extreme drought events. *Journal of Ecology*, vol. 102, n° 1, p. 45-53
17. **LAFOND, V., LAGARRIGUES, G., CORDONNIER, T., COURBAUD, B.** - 2014. Uneven-aged management options to promote forest resilience for climate change adaptation: effects of group selection and harvesting intensity. *Annals of Forest Science*, vol. 71, n° 2, p. 173-186
18. **LIGOT, G., BALANDIER, P., COURBAUD, B., CLAESSENS, H.** - 2014. Forest radiative transfer models: which approach for which application? *Canadian Journal of Forest Research-Revue Canadienne de Recherche Forestière*, vol. 44, n° 5, p. 391-403
19. **LIGOT, G., BALANDIER, P., COURBAUD, B., JONARD, M., KNEESHAW, D., CLAESSENS, H.** - 2014. Managing understory light to maintain a mixture of species with different shade tolerance. *Forest Ecology and Management*, vol. 327, p. 189-200
20. **LOPEZ-SAEZ, J., CORONA, C., STOFFEL, M., BERGER, F.** - 2014. Assessment of forested shallow landslide movements coupling tree ring records from stems and exposed roots. *Geomorphologie-Relief Processus Environnement*, vol. 2014, n° 2, p. 159-174
21. **MAO, Z., YANG, M., BOURRIER, F., FOURCAUD, T.** - 2014. Evaluation of root reinforcement models using numerical modelling approaches. *Plant and Soil*, vol. 381, n° 1-2, p. 249-270
22. **MARTINEZ-JAUREGUI, M., PARDOS, M., BALOGH, P., CHAUVIN, C., KLOPCIC, M., WILHELMSSON, E., HERRUZO, A.** - 2014. Hunting in European mountain systems: an economic assessment of game gross margins in nine case study areas. *European Journal of Wildlife Research*, vol. 60, n° 6, p. 933-936
23. **MONNET, J.M., MERMIN, E.** - 2014. Cross correlation of diameter measures for the co registration of forest inventory plots with airborne laser scanning data. *Forests*, vol. 5, n° 9, p. 2307-2326
24. **OLMEDO, I., BOURRIER, F., BERTRAND, D., BERGER, F., LIMAM, A.** - 2014. Felled trees as a rockfall protection system, experimental study for numerical models calibration. *Applied Mechanics and Materials*, vol. 566, p. 449-454
25. **RADTKE, A., TOE, D., BERGER, F., ZERBE, S., BOURRIER, F.** - 2014. Managing coppice forests for rockfall protection: lessons from modeling. *Annals of Forest Science*, vol. 71, n° 4, p. 485-494
26. **RASMANN, S., PELLISSIER, L., DEFOSSEZ, E., JACTEL, H., KUNSTLER, G.** - 2014. Climate-driven change in plant-insect interactions along elevation gradients. *Functional Ecology*, vol. 28, n° 1, p. 46-54
27. **REDON, M., BERGES, L., CORDONNIER, T., LUQUE, S.** - 2014. Effects of increasing landscape heterogeneity on local plant species richness: how much is enough? *Landscape Ecology*, vol. 29, n° 5, p. 773-787
28. **REDON, M., LUQUE, S., GOSSELIN, F., CORDONNIER, T.** - 2014. Is generalisation of uneven-aged management in mountain forests the key to improve biodiversity conservation within forest landscape mosaics? *Annals of Forest Science*, vol. 71, n° 7, p. 751-760
29. **REY, F., BURYLO, M.** - 2014. Can bioengineering structures made of willow cuttings trap sediment in eroded marly gullies in a Mediterranean mountainous climate? *Geomorphology*, vol. 204, p. 564-572
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